



STIC Search Report **EIC 2800**

STIC Database Tracking Number: 154641

**TO: Ken Parker
Location: JEF-4A59
Art Unit : 2871
Thursday, May 26, 2005**

Case Serial Number: 09/241989

**From: Darcy Bates
Location: EIC 2800
JEF- 4B68
Phone: 571-272-2540**

darcy.bates@uspto.gov

Search Notes

Re: 09/241,989 US 5,600,462

Attached are search results.

**No U. S. litigation was found in searches of
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let
me know.**

Thanks,

Darcy Bates



> d his

(FILE 'USPAT' ENTERED AT 14:26:32 ON 31 AUG 94)

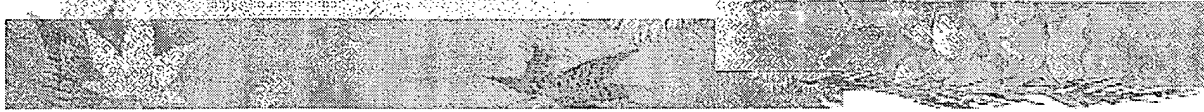
L1 4285 S ISOSCELES
L2 4645 S 359/36-106/CCLST
L3 15 S L1 AND L2

=> d 1-15

1. 5,295,018, Mar. 15, 1994, Polarization transforming optics, polarizing beam splitter and liquid crystal display; Nobuhiro Konuma, et al., 359/487, **63**, 495, 496 [IMAGE AVAILABLE]
2. 5,295,009, Mar. 15, 1994, Polarizer device; Mikhail I. Barnik, et al., **359/65**, **37**, **48**, **53**, **101** [IMAGE AVAILABLE]
3. 5,235,447, Aug. 10, 1993, Color matrix screen with colored filters in a triad or delta layout with two sub-pixels per color; Bernard Hepp, et al., **359/54**, **68** [IMAGE AVAILABLE]
4. 5,235,443, Aug. 10, 1993, Polarizer device; Mikhail I. Barnik, et al., **359/37**, **38**, **53**, **101** [IMAGE AVAILABLE]
5. 5,206,746, Apr. 27, 1993, Transparent-scattering type optical device including a prism with a triangular longitudinal cross section; Yoshiharu Ooi, et al., **359/40**, **49**, 831, 833 [IMAGE AVAILABLE]
6. 5,151,689, Sep. 29, 1992, Display device with matrix-arranged pixels having reduced number of vertical signal lines; Nobuaki Kabuto, et al., 345/103; **359/59**, **68** [IMAGE AVAILABLE]
7. 5,042,921, Aug. 27, 1991, Liquid crystal display apparatus; Makoto Sato, et al., **359/40**, **49**, **63**, **70**, **73** [IMAGE AVAILABLE]
8. 4,874,228, Oct. 17, 1989, Back-lit display; Kenneth A. Aho, et al., **359/49**, 362/23, 26, 309, 327, 339 [IMAGE AVAILABLE]
9. 4,737,019, Apr. 12, 1988, Liquid crystal optical switching device having minimized internal light path; Anthony P. Baker, **359/41**, **39**, **42**, **94**, 664; 385/33 [IMAGE AVAILABLE]
10. 4,729,640, Mar. 8, 1988, Liquid crystal light modulation device; Hajime Sakata, **359/42**, **79**, **82**, **87**, **94**, **95**, 569, 570, 571 [IMAGE AVAILABLE]
11. 4,342,031, Jul. 27, 1982, Liquid crystal and numerical display devices; James M. Lapeyre, 345/59; **359/88**, **89** [IMAGE AVAILABLE]
12. 4,097,121, Jun. 27, 1978, Liquid-crystal display with bistable cholesteric liquid-crystal layer and method of making the same; Miroslav Tauer, **359/54**, **71**, **74**, **81** [IMAGE AVAILABLE]
13. 3,936,816, Feb. 3, 1976, Flat display system; Yuich Murata, 345/50; 40/573; 313/505, 521; **359/46**, **54**, **89** [IMAGE AVAILABLE]
14. 3,843,231, Oct. 22, 1974, LIQUID CRYSTAL DIFFRACTION GRATING; Joseph Borel, et al., **359/87**, **94**, **95**, 559 [IMAGE AVAILABLE]
15. 3,791,716, Feb. 12, 1974, DEVICE FOR DEFLECTING A LIGHT BEAM; Joseph

Bates, Darcy

From: Parker, Ken
Sent: Wednesday, May 25, 2005 10:36 PM
To: STIC-EIC2800
Subject: Litigation search for patent #5600462



Darcey,

I am looking for a litigation search for patent 5600462.

Many thanks,

Ken Parker

RM 4A59

571-272-2298

5/26/05

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Patent Search - Number: 5,600,462



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Terms: **patno=5600462** ([Edit Search](#))

121657 (08) 5600462 February 4, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5600462

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[Link to Claims Section](#)

February 4, 1997

Optical film and liquid crystal display device using the film

REISSUE: Reissue Application filed Feb. 2, 1999 (O.G. Apr. 20, 1999) Ex. Gp.: 2822; Re. S.N. 09/241,989, (O.G. April 20, 1999)

INVENTOR: Suzuki, Masaru - Yamato, Japan (JP); Hanzawa, Fumihisa - Sagamihara, Japan (JP); Mogi, Manabu - Yamato, Japan (JP)

CERT-CORRECTION: December 16, 1997 - a Certificate of Correction was issued for this patent

APPL-NO: 121657 (08)

FILED-DATE: September 14, 1993

GRANTED-DATE: February 4, 1997

PRIORITY: September 16, 1992 - 4246225, Japan (JP)

ASSIGNEE-AT-ISSUE: International Business Machines Corporation, Armonk, New York, United States (US), 02

ASSIGNEE-AFTER-ISSUE: December 15, 1993 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., IBM CORPORATION OLD ORCHARD ROAD ARMONK NEW YORK 10504, Reel and Frame Number: 06846/0799

LEGAL-REP: Aker, David; Sbrollini, Jay P.; Murray, James E.

PUB-TYPE: February 4, 1997 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 349#112

US-ADDL-CL: 349#62


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patno=5600462

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Syntax Definition

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<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s.</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command : us5600462/pn

** SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5600462 A 19970204 [US5600462]

TI - (A) Optical film and liquid crystal display device using the film

PA - (A) IBM (US)

PAO - International Business Machines Corporation, Armonk NY [US]

IN - (A) SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)

AP - US12165793 19930914 [1993US-0121657]

PR - JP24622592 19920916 [1992JP-0246225]

IC - (A) G02F-001/1343

EC - F21V-005/02

G02B-005/02

G02B-006/00L6

G02F-001/13357E

PCL - ORIGINAL (O) : 349112000; CROSS-REFERENCE (X) : 349062000

DT - Corresponding document

CT - US3832541; US4648690; US4725134; US4791540; US5005168; US5159478;
US5206746; US5262880; US5289351; US5390276; EP0534140

"Polarized Backlight for Liquid Crystal Display", IBM Technical
Disclosure Bulletin, vol. 33 No. 1B, Jun. 1990, pp. 143-144.

STG - (A) United States patent

AB - The luminance within the viewing angle of an LCD device is
increased by using an optical film of transparent material. The
film has a first surface having a wave structure including a
plurality of isosceles triangle prisms arranged side-by-side, and
a second surface having an optically rough structure for
performing diffuse transmission. The film may also have a first
surface having a structure including a plurality of quadrangular
prisms arranged side-by-side, and a second surface having an
optically rough structure for performing diffuse transmission.

1 / 1 LGST - ©EPO

PN - US5600462 A 19970204 [US5600462]

AP - US12165793 19930914 [1993US-0121657]

ACT - 19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: IBM CORPORATION OLD ORCHARD ROAD ARMONK, NEW YORK;

EFFECTIVE DATE: 19931201

19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: SUZUKI, MASARU; EFFECTIVE DATE: 19931201

5/26/05

US 5,600,462

09/241989

19931215 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: HANZAWA, FUMIHISA; EFFECTIVE DATE: 19931112

19931215 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MOGI, MANABU; EFFECTIVE DATE: 19931112

19971216 US/CC-A
CERTIFICATE OF CORRECTION

19990420 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990202

UP - 2003-22

1 / 1 CRXX - @CLAIMS/RRX
AN - 2810485
PN - 5,600,462 A 19970204 [US5600462]
PA - International Business Machines Corp
PT - E (Electrical)
ACT - 19990202 REISSUE REQUESTED
Issue Date of O.G.: 19990420
Reissue Request Number: 09/241989
Examination Group responsible for Reissue process: 2822

UP - 1999-00

Search statement 2

Query/Command : fam us5600462/pn

1 Patent Groups
** SS 2: Results 6

Search statement 3

Query/Command : famstate nonstop

1 / 6 PLUSPAT - @QUESTEL-ORBIT
PN - AT163772 T 19980315 [ATE163772]
STG - (T) EP Patent valid in AT
OTI - (T) HINTERBELEUCHTUNGSVORRICHTUNG FÜR EINE
FLÜSSIGKRISTALL-ANZEIGEVORRICHTUNG
PA - (T) IBM (US)
IN - (T) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC - (T) F21V-005/02 F21V-008/00 G02B-005/02 G02F-001/1335
AP - AT93306536T 19930818 [1993AT-0306536]

5/26/05

US 5,600,462

09/24/1989

PR - JP24622592 19920916 [1992JP-0246225]

1 / 1 LEGALI - ©EPO

PN - EP0588504 A1 19940323 [EP-588504]EP0588504 B1 19980304 [EP-588504]

AP - EP93306536 19930818 [1993EP-0306536]

ACTE- 19940323 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH DE ES FR GB IT LI NL SE

19940914 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 19940718

19960703 EP/17Q-A [+]

FIRST EXAMINATION REPORT

EFFECTIVE DATE: 19960521

19980304 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH DE ES FR GB IT LI NL SE

19980304 EP/REF-A

CORRESPONDS TO:

(AT 163772T 19980315 [ATE163772])

19980313 EP/REG-A; CH/EP [+]

CH: ENTRY IN THE NATIONAL PHASE

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19980409 EP/REF-A

CORRESPONDS TO:

(DE 69317184 19980409 [DE69317184])

19980415 EP/REG-A; CH/NV

CH: NEW AGENT

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REPRESENTATIVE: CARL O. BARTH C/O IBM CORPORATION ZURICH INTELLECT

19980428 EP/ITF-A [+]

IT: TRANSLATION FOR A EP PATENT FILED

OWNER: BRAVI ALFREDO DR.

19980710 EP/ET-A [+]

FR: TRANSLATION FILED

19980915 EP/REG-A; CH/PL [-]

CH: PATENT CEASED

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19990127 EP/26-A [-]

OPPOSITION FILED

OPPONENT: MANNESMANN VDO AG; EFFECTIVE DATE: 19981204

19990401 EP/NLR1-A [-]

NL: OPPOSITION HAS BEEN FILED WITH THE EPO

OPPONENT: MANNESMANN VDO AG

20010207 EP/R26-A [-]

OPPOSITION FILED (CORRECTION)

OPPONENT: MANNESMANN VDO AG; EFFECTIVE DATE: 19981204

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OPPONENT: MANNESMANN VDO AG

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20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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20021127 EP/27W-A [-]
REVOKED
EFFECTIVE DATE: 20020912

20021127 EP/GBPR-A [-]
GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING
THE UK AS CONTRACTING STATE
20020912

20030203 EP/NLR2-A
NL: DECISION OF OPPOSITION
EFFECTIVE DATE: 20020912

UP - 2004-06

2 / 6 PLUSPAT - ©QUESTEL-ORBIT
PN - CA2105053 A1 19940317 [CA2105053]
STG - (A1) Application laid open
TI - (A1) Optical Film and a Liquid Crystal Display Device Using the Film
OTI - (A1) Pellicule optique et dispositif d'affichage à cristaux
liquides utilisant la pellicule
PA - (A1) IBM (JP)
IN - (A1) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC - (A1) G02B-005/02 G02B-005/124 G02F-001/133
PN2 - CA2105053 C 19990518 [CA2105053]
STG2- (C) Patent
TI2 - (C) AN OPTICAL FILM AND A LIQUID CRYSTAL DISPLAY DEVICE USING THE FILM
OTI2- (C) PELLICULE OPTIQUE ET DISPOSITIF D'AFFICHAGE A CRISTAUX
LIQUIDES UTILISANT LA PELLICULE
IN2 - (C) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC2 - (C) G02B-005/02 G02B-005/124 G02F-001/1335
LA - ENGLISH (ENG)
AP - CA2105053 19930827 [1993CA-2105053]
PR - JP24622592 19920916 [1992JP-0246225]

1 / 1 LEGALI - ©EPO
PN - CA2105053 A1 19940317 [CA2105053]CA2105053 C 19990518 [CA2105053]
AP - CA2105053 19930827 [1993CA-2105053]
ACTE- 20030403 CA/EEER-A [+]
EXAMINATION REQUEST
EFFECTIVE DATE: 19930827
UP - 2004-08

3 / 6 PLUSPAT - ©QUESTEL-ORBIT

PN - DE69317184 D1 19980409 [DE69317184]
STG - (D1) Granted EP number in bulletin
OTI - (D1) HinterbeleuchtungsVorrichtung für eine
 Flüssigkristall-Anzeigevorrichtung
PA - (D1) IBM (US)
IN - (D1) SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP); MOGI MANABU (JP)
IC - (D1) F21V-005/02 F21V-008/00 G02B-005/02 G02F-001/1335
PN2 - DE69317184 T2 19981029 [DE69317184]
STG2 - (T2) Trans. Of EP patent
OTI2 - (T2) HinterbeleuchtungsVorrichtung für eine
 Flüssigkristall-Anzeigevorrichtung
PA2 - (T2) IBM (US)
IN2 - (T2) SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP); MOGI MANABU (JP)
IC2 - (T2) F21V-005/02 F21V-008/00 G02B-005/02 G02F-001/1335
AP - DE69317184 19930818 [1993DE-6017184]
PR - JP24622592 19920916 [1992JP-0246225]

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PN - DE69317184 D1 19980409 [DE69317184]DE69317184 T2 19981029
 [DE69317184]
AP - DE69317184 19930818 [1993DE-6017184]
ACTE - 19990311 DE/8363-A [-]
 OPPOSITION AGAINST THE PATENT
 20030109 DE/8331-A [-]
 COMPLETE REVOCATION
UP - 2003-22

4 / 6 PLUSPAT - ©QUESTEL-ORBIT - image

PN - EP0588504 A1 19940323 [EP-588504]
STG - (A1) Public. Of applic. With search report
TI - (A1) A backlight device for a liquid crystal display device.
OTI - (A1) HinterbeleuchtungsVorrichtung für eine
 Flüssigkristall-Anzeigevorrichtung.
 (A1) Dispositif d'éclairage par l'arrière pour un dispositif
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PA - (A1) IBM (US)
IN - (A1) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC - (A1) F21V-005/02 F21V-008/00 G02B-005/02 G02F-001/1335
PN2 - EP0588504 B1 19980304 [EP-588504]
STG2 - (B1) Patent
TI2 - (B1) A backlight device for a liquid crystal display device
OTI2 - (B1) HinterbeleuchtungsVorrichtung für eine
 Flüssigkristall-Anzeigevorrichtung
 (B1) Dispositif d'éclairage par l'arrière pour un dispositif
 d'affichage à cristal liquide
PA2 - (B1) IBM (US)
IN2 - (B1) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC2 - (B1) F21V-005/02 F21V-008/00 G02B-005/02 G02F-001/1335
LA - ENGLISH (ENG)
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PR - JP24622592 19920916 [1992JP-0246225]
EC - F21V-005/02
 G02B-005/02
 G02B-006/00L6
 G02F-001/13357E
DS - AT BE CH DE ES FR GB IT LI NL SE
DT - Basic

1 / 1 LEGALI - ©EPO

PN - EP0588504 A1 19940323 [EP-588504]EP0588504 B1 19980304 [EP-588504]

AP - EP93306536 19930818 [1993EP-0306536]

ACTE- 19940323 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH DE ES FR GB IT LI NL SE

19940914 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 19940718

19960703 EP/17Q-A [+]

FIRST EXAMINATION REPORT

EFFECTIVE DATE: 19960521

19980304 EP/AK-A [+]

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19980304 EP/REF-A

CORRESPONDS TO:

(AT 163772T 19980315 [ATE163772])

19980313 EP/REG-A; CH/EP [+]

CH: ENTRY IN THE NATIONAL PHASE

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19980409 EP/REF-A

CORRESPONDS TO:

(DE 69317184 19980409 [DE69317184])

19980415 EP/REG-A; CH/NV

CH: NEW AGENT

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REPRESENTATIVE: CARL O. BARTH C/O IBM CORPORATION ZURICH INTELLECT

19980428 EP/ITF-A [+]

IT: TRANSLATION FOR A EP PATENT FILED

OWNER: BRAVI ALFREDO DR.

19980710 EP/ET-A [+]

FR: TRANSLATION FILED

19980915 EP/REG-A; CH/PL [-]

CH: PATENT CEASED

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19990127 EP/26-A [-]

OPPOSITION FILED

OPPONENT: MANNESMANN VDO AG; EFFECTIVE DATE: 19981204

19990401 EP/NLR1-A [-]

NL: OPPOSITION HAS BEEN FILED WITH THE EPO

OPPONENT: MANNESMANN VDO AG

20010207 EP/R26-A [-]

OPPOSITION FILED (CORRECTION)

OPPONENT: MANNESMANN VDO AG; EFFECTIVE DATE: 19981204

20010402 EP/NLR1-A [-]

NL: OPPOSITION HAS BEEN FILED WITH THE EPO

OPPONENT: MANNESMANN VDO AG

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FR: LAPSED
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20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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LAPSED IN A CONTRACTING STATE
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EFFECTIVE DATE: 19980304

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REVOKED
EFFECTIVE DATE: 20020912

20021127 EP/GBPR-A [-]
GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING
THE UK AS CONTRACTING STATE
20020912

20030203 EP/NLR2-A
NL: DECISION OF OPPOSITION
EFFECTIVE DATE: 20020912

UP - 2004-06

5 / 6 PLUSPAT - @QUESTEL-ORBIT - image
PN - JP6109925 A 19940422 [JP06109925]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) OPTICAL FILM AND LIQUID CRYSTAL DISPLAY DEVICE USING ABOVE
DESCRIBED OPTICAL FILM
PA - (A) IBM (US)
PAO - (A) INTERNATL BUSINESS MACH CORP <IBM>
IN - (A) MOGI MANABU (JP); SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC - (A) G02B-005/02 G02B-006/00 G02F-001/1335
PN2 - JP3006306 B2 20000207 [JP3006306]
STG2- (B2) Grant. Pat. With A from 2500000 on
IC2 - (B2) G02B-005/02 G02B-005/04 G02B-006/00 G02F-001/1335
AP - JP24622592 19920916 [1992JP-0246225]
PR - JP24622592 19920916 [1992JP-0246225]

6 / 6 PLUSPAT - @QUESTEL-ORBIT
PN - US5600462 A 19970204 [US5600462]
STG - (A) United States patent
TI - (A) Optical film and liquid crystal display device using the film
PA - (A) IBM (US)
PAO - International Business Machines Corporation, Armonk NY [US]
IN - (A) SUZUKI MASARU (JP); HANZAWA FUMIHISA (JP)
IC - (A) G02F-001/1343
AP - US12165793 19930914 [1993US-0121657]
PR - JP24622592 19920916 [1992JP-0246225]
EC - F21V-005/02
G02B-005/02
G02B-006/00L6
G02F-001/13357E
PCL - ORIGINAL (O) : 349112000; CROSS-REFERENCE (X) : 349062000
DT - Corresponding document

5/26/05

US 5,600,462

09/24/1989

1 / 1 LEGALI - ©EPO

PN - US5600462 A 19970204 [US5600462]

AP - US12165793 19930914 [1993US-0121657]

ACTE- 19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: IBM CORPORATION OLD ORCHARD ROAD ARMONK, NEW YORK;

EFFECTIVE DATE: 19931201

19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: SUZUKI, MASARU; EFFECTIVE DATE: 19931201

19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HANZAWA, FUMIHISA; EFFECTIVE DATE: 19931112

19931215 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: MOGI, MANABU; EFFECTIVE DATE: 19931112

19971216 US/CC-A

CERTIFICATE OF CORRECTION

19990420 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 19990202

UP - 2003-22


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or	or
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not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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<u>or</u>	or
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<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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